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(54) Title: SYSTEM AND METHOD FOR JACKPOT WAGERING
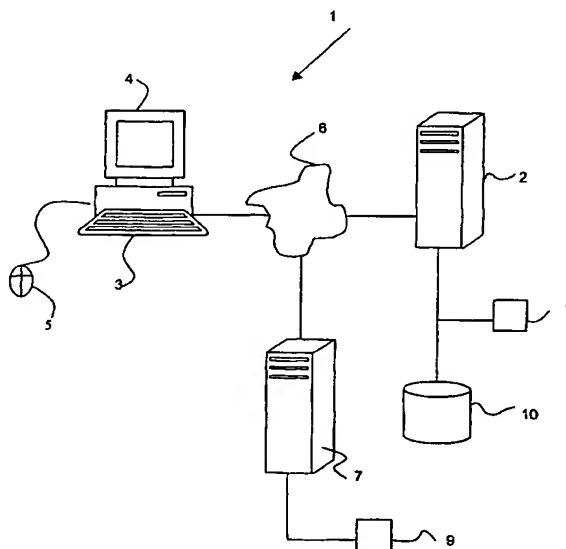
(57) Abstract: A jackpot wagering system (1) includes a player terminal (3) operable by a player to place a wager on a number of games of chance, a random event generator (8) that generates random events upon which outcomes of the games of chance are based, and a determination facility that determines the quantum of a prize that is available to be won by a player upon the occurrence of a favourable outcome of the game of chance. The quantum of the prize is determined as a function of the size of the player's wager and the maximum limit of the wager. The player's wager is subject to a maximum limit and a portion of each wager is accumulated in an accumulation account as a jackpot prize. The contents of the accumulation account are denominated in a base currency that is selected to be a strongest one of the playing currencies.

WO 2004/037363 A1

10 ## SYSTEM AND METHOD FOR JACKPOT WAGERING

### Field of the Invention

15    This invention relates to a system for jackpot wagering and, more particularly, but not exclusively, to a system for jackpot wagering in relation to casino games. The invention extends to a method for jackpot wagering in relation to casino games.

### Background to the Invention

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Jackpot wagering systems are well known in land-based casinos. The most common such wagering system is found in a simple three-reel slot machine. Each reel of the slot machine has, say, 30 indexed positions, some or all of which may display a corresponding indicium. A player of the slot machine is required to place

25    a wager by introducing coins, tokens or credit into the slot machine, which then enables each of the three reels to be spun and to come to rest ay any of the indexed positions. One resulting combination of indexed rest positions usually allows the player to win a prize consisting of a fixed jackpot. A slot machine with this particular geometry provides the player with a 1 in 27 000 chance of winning

30    the fixed jackpot.

In order to take advantage of the random nature of the indexed rest positions of the reels, it is known to replace the fixed jackpot by a progressive jackpot in which a proportion of each wager placed by the player of the slot machine is used to increment the jackpot. The randomness makes it possible for the progressive jackpot to become large relative to the fixed jackpot described above, which enhances the attractiveness of the slot machine to would-be players thereof. It must, of course, be appreciated that the randomness also raises the possibility of the progressive jackpot being won when it is small relative to the above fixed jackpot.

The probability of winning the jackpot is the reciprocal of the number of all possible outcomes of the game that will, for convenience, be referred to as the jackpot cycle of the game. As an illustration, the jackpot cycle of the three-reel slot machine described earlier in this specification is 27 000. This means that, on average, 27 000 outcomes of the game must be determined in order for the contents of the progressive jackpot, to be won by the player.

The next step in the evolution of jackpot wagering systems was to link multiple slot machines having identical jackpot cycles to the same progressive jackpot, leading to the creation of larger and more attractive jackpots. Initially, the multiple identical slot machines linked to such progressive jackpots were clustered in close proximity to each other, such as within the confines of a land-based casino, but the advent of low-cost telecommunication networks soon enabled multiple remote clusters of identical slot machines to be linked to a single progressive jackpot. It is a characteristic of such distributed progressive jackpot wagering systems that they are restricted to casinos belonging to a single business enterprise.

The advent of open communication networks such as the Internet has led to a proliferation of online casinos, bringing online gaming within the reach of anyone

with access to the World Wide Web of the Internet. Jackpot wagering systems and progressive jackpot wagering systems have now become available through such online casinos. Online progressive jackpot wagering systems have evolved further to a point where it is now known for players at competing online casinos to be able

5    to play identical casino games linked to a common progressive jackpot. Access to these types of progressive jackpot wagering systems is provided through jackpot portals on the World Wide Web.

Object of the Invention

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It is an object of this invention to provide a jackpot wagering system, and a method for jackpot wagering that exhibits increased functionality relative to prior art equivalents.

15    Summary of the Invention

In accordance with this invention there is provided a jackpot wagering system, comprising:

a player terminal operable by a player to place a wager on a turn of at least one

20    game of chance, the wager having a maximum limit;

an accumulation facility responsive to placement of the wager to accumulate a portion thereof in an accumulation account;

a random event generator activatable to generate a random event upon which an outcome of the at least one game of chance is based, the outcome including a

25    favourable outcome causing the player to win a determinable portion of the contents of the accumulation account; and

a determination facility responsive to placement of the wager to determine, prior to activation of the random event generator, the determinable portion of the contents of the accumulation account as a function of at least the size of the wager and the

30    maximum limit thereof.

Further features of the invention provide for the player terminal to be operable to place a wager on a turn of any one of a plurality of different selectable games of chance, each one of the plurality of different games of chance having a corresponding maximum limit for a wager and a respective favourable outcome

5    causing the player to win a determinable portion of the contents of the accumulation account, for the wager to be denominatable in any one of a number different permissible playing currencies, for contents of the accumulation account to be denominatable in a base currency which is stronger than or equal to a strongest one of the permissible playing currencies, for the strongest one of the

10   permissible playing currencies to be the base currency, for the maximum limit of the wager to be denominated in the base currency, for the jackpot wagering system to include a conversion facility instructable to convert a wager from any one of the different permissible playing currencies to an equivalent wager in the base currency, and for the conversion facility to include a stored spot exchange rate

15   from any one of the permissible playing currencies to the base currency, the stored spot exchange rates being selectively updateable from time to time.

Still further features of the invention provide for the wager to be denominatable as an integral number of units or an integral number of fractional units of any one of

20   the permissible playing currencies.

Yet further features of the invention provide for the function by which the determination facility determines the portion of the contents of the accumulation account to be won by the player to be a ratio of the size of the wager to the

25   maximum limit thereof, for the determination facility to determine the size of the wager as a function of the particular permissible playing currency in which the wager is denominated and a corresponding denomination of the of units or fractional units of that playing currency, and for the determination facility to determine the maximum limit of the wager as a function of the base currency.

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There is also provided for each one of the plurality of different games of chance to have a corresponding jackpot cycle, for the determination facility to determine the determinable portion of the contents of the accumulation account as a function of at least the size of the wager, a maximum limit thereof, and the jackpot cycle of the

5　selected game of chance, for the function by which the determination facility determines the portion of the contents of the accumulation account to be won by the player to be a product of a ratio of the size of the wager to the maximum limit thereof, and a relative size of the jackpot cycle of the selected game of chance, and for the relative size of the jackpot cycle of the selected game to be a ratio of

10　the jackpot cycle of the selected game to the greatest jackpot cycle of any one of the plurality of different selectable games.

There is further provided for the outcome of the at least one game of chance to include a plurality of different partially favourable outcomes, each partially

15　favourable outcome causing the portion of the contents of the accumulation account won by the player to be to be proportionally reduced, for the reduction in response to the occurrence of a partially favourable outcome of the game of chance to be proportional to the probability of occurrence of the corresponding outcome, for there to be preferably three partially favourable outcomes,

20　alternatively five partially favourable outcomes, and for the portion of the wager accumulated in the accumulation account by the accumulation facility to be a percentage of the wager, preferably three percent.

The invention extends to a method for jackpot wagering, comprising the steps of:

25　placing a wager on a turn of at least one game of chance, the wager having a maximum limit;

accumulating a portion of the wager in an accumulation account;

generating a random event upon which an outcome of the at least one game of chance is based, the outcome including a favourable outcome causing the player

30　to win a determinable portion of the contents of the accumulation account; and

determining, prior to generating the random event, the determinable portion of the contents of the accumulation account as a function of at least the size of the wager and the maximum limit thereof.

5      The method includes the further step of placing a wager on a turn of any one of a plurality of different selectable games of chance, each one of the plurality of different games of chance having a corresponding maximum limit for the wager and a respective favourable outcome causing the player to win a determinable portion of the contents of the accumulation account, for denominating the wager in

10     any one of a number different permissible playing currencies, for denominating the contents of the accumulation account in a base currency which is stronger than or equal to a strongest one of the permissible playing currencies, for selecting the strongest one of the permissible playing currencies to be the base currency, for denominating the maximum limit of the wager in the base currency, for converting

15     a wager from any one of the different permissible playing currencies to an equivalent wager in the base currency, for providing a stored spot exchange rate from any one of the permissible playing currencies to the base currency, the stored spot exchange rates being updated from time to time.

20     There is still further provided for denominating the wager as an integral number of units or as an integral number of fractional units of any one of the permissible playing currencies.

       There is yet further provided for determining the portion of the contents of the

25     accumulation account to be won by the player as a ratio of the size of the wager to the maximum limit thereof, for determining the size of the wager as a function of the particular permissible playing currency in which the wager is denominated and a corresponding denomination of the of units or fractional units of that playing currency, and for determining the maximum limit of the wager as a function of the

30     base currency.

There is also provided for further determining a jackpot cycle of each one of the plurality of different games of chance, for determining the determinable portion of the contents of the accumulation account as a function of at least the size of the wager, a maximum limit thereof, and a jackpot cycle of the selected game of

5      chance, for determining the portion of the contents of the accumulation account to be won by the player as a product of a ratio of the size of the wager to the maximum limit thereof, and a relative size of the jackpot cycle of the selected game of chance, and for determining the relative size of the jackpot cycle of the selected game as a ratio of the jackpot cycle of the selected game to the greatest jackpot

10     cycle of any one of the plurality of different selectable games.

There is also provided for establishing a plurality of different partially favourable outcomes for the at least one game of chance, preferably three partially favourable outcomes, alternatively five partially favourable outcomes, each partially favourable

15     outcome causing the portion of the contents of the accumulation account won by the player in response to each partially favourable outcome to be proportionally reduced, for reducing the portion of the contents of the accumulation account won by the player in response to the occurrence of a partially favourable outcome of the game of chance in proportion to the probability of occurrence of the corresponding

20     outcome, and for accumulating the portion of the wager in the accumulation account as a percentage of the wager.

Brief Description of the Drawings

25     One embodiment of the invention is described below, by way of example only, and with reference to the abovementioned drawings, in which:

Figure 1   is schematic representation of a jackpot wagering system according to the invention;

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Figure 2   is a simplified flow chart of the operation of the jackpot wagering system
of Figure 1; and

Figure 3   is a flow chart of a computation of a scale of play for the jackpot
wagering system of Figure 1.

Detailed Description of the Invention

Referring to Figure 1, a jackpot wagering system is indicated generally by
reference numeral (1).

The jackpot wagering system (1) includes a gaming server (2) and a player
terminal (3) in the form of a computer workstation with an associated display
monitor (4) and a pointing device (5), such as a mouse or a touchpad. The
computer workstation (3) is located remotely from the gaming server (2) and
communication between the computer workstation and the gaming server is
provided across a communication network (6) that is, in this embodiment, the
Internet. The system (1) also includes an accumulation facility (7) in the form of an
application server that is also connected to the communication network (6).

The computer workstation (3) is a conventional personal computer operating under
a Windows 2000 operating system, which is well known and commercially
available from the Microsoft Corporation of Seattle, Washington, USA. The
computer workstation (3) executes one or more simulation software programs,
each of which simulates the progress of a different game of chance. The generic
operation of the simulation programs will be described in more detail in the
description that follows.

The gaming server (2) includes a random event generator in the form of a
computer program (8) that is executable to generate random events upon which an
outcome of any one of the games of chance is based. As an illustration, one of the

simulation programs on the computer workstation (3) simulates a game of roulette and, in this instance, the random event generation program (8) is executable to select, on a random basis, an integer between 0 and 36 that is displayed on the computer workstation as a ball coming to rest at a corresponding one of 37

5　demarcated positions on a roulette wheel. As a further illustration, another one of the simulation programs simulates a game of draw poker and the random event generation program (8) is executable to generate five random integers between 1 and 52 that correspond to five playing cards making up a particular hand of poker.

10　The application server (7) also operates under the Windows 2000 operating system and executes an accumulation software program (9) that communicates with the gaming server (2).

A player wishing to use the jackpot wagering system (1) is first required to register

15　and to create an account on the gaming server (2). The player is then required to pre-fund the account by purchasing credit that will, for convenience, be denominated in this description in "units". The gaming server (2) stores a credit balance corresponding to the player's account at all times.

20　In order to commence, the player uses the computer workstation (3) to log onto the gaming server (2) and initiates execution of any selected one of the simulation software programs, which displays an appropriate image of a corresponding game of chance on the monitor (4). The player now enters a betting phase of the game of chance by making a wager on the game. The player may make any wager that is

25　permitted for the particular selected game. The player's wager is denominated as an integral number of units of credit. The size of the player's wager is displayed on the display monitor (4). There must be sufficient credit in the player's account to cover any wager that is made by the player. Data relating to the type and size of the wager made by the player is transmitted by the computer workstation (3)

30　across the communication network (6) to the gaming server (2) where it is

recorded in a database on an associated storage device (10), such as a magnetic or optical storage disk.

The gaming server (2) forwards data relating to the size of each wager across the communication network (6) to the application server (7) where it is processed by the accumulation software program (9). The accumulation software program (9) maintains a balance of an accumulation account on the application server (7) and increments this a balance by an amount equal to a predetermined portion of each wager made by the player. The predetermined portion of each wager that is accumulated in this manner is 3 percent of the wager.

It is envisaged that a plurality of different players may each simultaneously use the jackpot wagering system (1), each from a corresponding different computer workstation (3). Each player may individually select which of the available games of chance they wish to play. The accumulation software program (9) increments the balance of the accumulation account by an amount corresponding to a predetermined portion of each wager made by each one of the plurality of different players using the jackpot wagering system (1). It will be appreciated by those skilled in the art that the balance of the accumulation account can rapidly become large, which renders the jackpot wagering system (1) attractive to participating and would-be players.

Each one of the selectable games of chance has a single favourable outcome, three partially favourable outcomes, and a plurality of unfavourable outcomes. When the random event generator (8) generates random events that result in an unfavourable outcome, the player's wager is forfeited to an operator of the jackpot wagering system. When a favourable outcome of the game of chance occurs, the player wins the entire contents of the accumulation account. When a partially favourable outcome occurs, the player wins a predetermined fraction of the contents of the accumulation account. The game of chance also has a number of intermediate outcomes, each of which causes the player to win the wager at

predetermined fixed odds. The payout characteristics of the game of chance are arranged such that the predetermined fraction of the contents of the accumulation account that is won by the player in response to the occurrence of any one of the partially favourable outcomes of the game of chance is inversely proportional to the

5    probability of that outcome.

In a first variation of this embodiment of the invention, a player is able to make a wager that is denominated as an integral number of fractional units of credit. This is analogous, in a physical environment, to making wagers denominated in

10    different coin sizes.

In a further variation of this embodiment of the invention, a player may purchase credit and make a wager in any one of a number of different permissible playing currencies. The jackpot wagering system (1) also has a base currency that is used

15    to denominate the balance of the accumulation account. For convenience, the base rate has an exchange rate less than or equal to unity with each one the permissible playing currencies. This means that it is either stronger than all of the permissible playing currencies or, when the base currency is one of the permissible playing currencies, it is the strongest of the permissible playing

20    currencies.

In order to further illustrate the operation of the jackpot wagering system (1), a number of illustrative examples are outlined below. It is, however, first necessary to introduce a parameter termed "scale of play". The scale of play is defined as being

25    a percentage of the jackpot that will be won by the player on the next turn of the selected game of chance if the outcome of the turn is a favourable outcome. It will be appreciated that the scale of play will always lie between zero and one. The scale of play for a particular turn of the game is a function of the following playing parameters: the size of the wager made by the player, which is, in turn, determined

30    by the "coin size" and the permissible playing currency used by the player in making the wager, and the jackpot cycle of the particular game selected by the

player. In order to determine a scale of play that accommodates a choice of playing currency, a choice of "coin size" and a choice of game from a menu of games having differing jackpot cycles, each one of these playing parameters is normalised, respectively, against a corresponding maximum value of these playing
5    parameters that are, respectively, base currency, a "coin size" that is an integral unit of credit, and the largest jackpot cycle of any one of the plurality of games of chance selectable by the player.

The calculation of scale of play for any particular turn of the selected game of
10   chance is determined as a product of the above three normalised playing parameters, expressed as a percentage, namely:

$$\text{Scale (\%)} = \text{Currency (\%)} * \text{Coin size (\%)} * \text{Jackpot Cycle (\%)}$$

15   The computed scale parameter determines the portion of the jackpot that can be won by the player on the turn of the game upon the occurrence of a favourable outcome. The scale parameter is displayed to the player by means of an icon on the display monitor (4).

20   It will be further appreciated by those skilled in the art that the predetermined portion of the wager accumulated by the application server (7) is determined by the first two of the above parameters, choice of permissible playing currency and the "coin size" used by the player to make the wager.

25   <u>Example 1 (Multi-currency)</u>

The base currency of the jackpot wagering system (1) is United States Dollars ($), the accumulated total of the jackpot is $20 000,00 with a wager requirement of 3 x $1 coins to with the jackpot of the particular game.

30

A $ player wagering 3 x $1 coins will be playing at a scale of 100% and can win the entire contents of the jackpot upon the occurrence of a favourable event.

The scale of play for an Australian Dollar (AUD) player wagering 3 x 1 AUD coins at an exchange rate of  $1 = 2 x AUD will be:

$$\text{Scale} = \text{Currency (\%)} * \text{Coin size (\%)} * \text{Jackpot Cycle (\%)}$$
$$= \text{AUD (\%)} * 100\% * 100\%$$
$$= 50\% * 100\% * 100\%$$
$$= 50\%$$

In this instance, the player will see a scale parameter of 50% displayed on the display monitor (4) and will win 50% of the jackpot, namely $10 000,00, which is equivalent to AUD 20 000,00, upon the occurrence of a favourable event.

If the contribution percentage for the selected game is 3%, the player's contribution to the jackpot is 3% of his wager, namely 3% * AUD 3 = AUD 0,09 = $0,045.

## Example 2 (Multiple Coinsize)

The base currency of the jackpot wagering system (1) is USD, the accumulated total of the jackpot is $20 000,00 with a wager requirement of 3 x $1 coins to win the jackpot of the particular game.

A $ player wagering 3 x $1 coins will be playing at a scale of 100% and can win the entire contents of the jackpot upon the occurrence of a favourable event.

The scale of play for a $ player, wagering 3 x $0.25 coins will be:

$$\text{Scale} = \text{Currency (\%)} * \text{Coin size (\%)} * \text{Jackpot Cycle (\%)}$$
$$= 100 \% * 25\% * 100\%$$

= 25%

In this instance, the player will see a scale parameter of 25% displayed on the display monitor (4) and will win 25% of the jackpot, namely $5 000,00, upon the occurrence of a favourable event.

If the contribution percentage for the selected game is 3%, the player's contribution to the jackpot is 3% of his wager, namely 3% * $0,75 = $0,0225.

## Example 3 (Multi Game)

The base currency of the jackpot wagering system (1) is USD, the accumulated total of the jackpot is $20 000,00 with a wager requirement of 3 x $1 coins to win the jackpot in any of two participating games – Game 1 and Game 2.

Game 1 has a jackpot cycle of 200 000 with a probability of 1 in 200 000 of winning the jackpot, while game 2 has a jackpot cycle of 150 000, or a 1 in 150 000 probability of winning the same jackpot. Both games have the same wager requirements, but different jackpot cycles (probabilities of winning the jackpot). In this example, a player of game 2 is 200 000/150 000 = 1,333 times as likely to win the jackpot as a player of game 1.

A $ player wagering 3 x $1 coins on game 1 will be playing at a scale of 100% and can win the entire contents of the jackpot upon the occurrence of a favourable event.

The same, or another, $ player wagering 3 x $1 coins on game 2 will be playing at the following scale of play:

Scale  = Currency (%) * Coin size (%)  * Jackpot Cycle (%)
        = 100 (%) * 100% * 75%

= 75%

In this instance, the player will see a scale parameter of 75% displayed on the display monitor (4) and will win 75% of the jackpot, namely $15 000,00, upon the
5   occurrence of a favourable event.

If the contribution percentage for both of these games is 3%, the player's contribution to the jackpot are 3% of the wager in each case, namely 3% * $3,00 = $0,09 in respect of each one of the games.
10

## Example 4 (Partial Jackpots on the Pay Table)

The base currency of the jackpot wagering system (1) is USD, the accumulated total of the jackpot is $20 000,00 with a wager requirement of 3 x $1 coins to win
15   the jackpot on a first win line, that is, on the occurrence of a favourable event. The game also enables a player to win 50% of the jackpot on a second win line, that is, on the occurrence of a partially favourable event.

A $ player wagering 3 x $1 coins will be playing at a scale of 100% and can win the
20   entire contents of the jackpot upon the occurrence of a favourable event.

The same player, who is playing at a scale of play of 100%, will also be eligible to win 50% of the jackpot, namely $10 000,00 on the occurrence of a partially favourable event on the second win line.
25

If the contribution percentage for the selected game is 3%, the player's contribution to the jackpot is 3% of his wager, namely 3% * $3,00 = $0,09.

30

## Example 5 (Multi Currency, Multiple Coinsize, Multi Game)

The base currency of the jackpot wagering system (1) is USD, the accumulated total of the jackpot is $20 000,00 with a wager requirement of 3 x $1 coins to win
5     the jackpot in any of two participating games – Game 1 and Game 2.

Game 1 has a jackpot cycle of 200 000 with a probability of 1 in 200 000 of winning the jackpot, while game 2 has a jackpot cycle of 150 000, or a 1 in 150 000 probability of winning the same jackpot. Both games have the same wager
10    requirements, but different jackpot cycles (probabilities of winning the jackpot). In this example, a player of game 2 is 200 000/150 000 = 1,333 times as likely to win the jackpot as a player of game 1.

A $ player wagering 3 x $1 coins on game 1 will be playing at a scale of 100% and
15    can win the entire contents of the jackpot upon the occurrence of a favourable event.

The scale of play for an Australian Dollar (AUD) player wagering 3 x 0,25 AUD coins on game 2 at an exchange rate of  $1 = 2 x AUD will be:
20

$$
\begin{aligned}
\text{Scale} &= \text{Currency (\%)} * \text{Coin size (\%)} * \text{Jackpot Cycle (\%)} \\
&= \text{AUD (\%)} * 25\% * 75\% \\
&= 50\% * 25\% * 75\% \\
&= 9{,}375\%
\end{aligned}
$$

25

In this instance, the player will see a scale parameter of 9,375% displayed on the display monitor (4) and will win 9,375% of the jackpot, namely $1 875,00, which is equivalent to AUD 3750,00, upon the occurrence of a favourable event.

If the contribution percentage for the selected game is 3%, the player's contribution to the jackpot is 3% of his wager, namely 3% * AUD 0,75 = AUD 0,0225 = $0,01125.

5    When the outcome of the selected game is any one of the three partially favourable outcomes, the portion of the contents of the accumulation account that is won by the player is proportionally reduced. The proportional reduction in response to the occurrence of a partially favourable outcome of the game of chance is inversely proportional to the probability of occurrence of that partially
10   favourable outcome.

It will be still further appreciated by those skilled in the art that the invention provides a jackpot wagering system that exhibits a greater degree of functionality than prior art equivalents. The technical problem solved by this invention is that of
15   creating a jackpot wagering system with an open architecture. Additional participating games can be added to the system with ease, the only relevant parameter of an additional game that needs to be considered being a size of a jackpot cycle of the game. Further, the jackpot wagering system, which enables multiple playing currencies to be used for wagering can be expanded simply to
20   accommodate one or more additional playing currencies. The use of an open communication channel such as the Internet to provide communication between the various component parts of the jackpot wagering system removes any geographic or organisational limitations that are characteristic of prior art jackpot wagering systems. Still further, the jackpot wagering system, which is suitable for
25   use with online casinos, enables different casinos to participate in the system, each casino being able to link their own menus of games for participation in the common jackpot.

Further technical problems solved by this invention are those of overcoming
30   limitations associated with existing jackpot wagering systems, namely limitations of no choice of game, single-currency wagering, and single coin-size wagering, which

restrict the appeal of such jackpot wagering systems to would-be users thereof. The invention overcomes these limitations by providing a practical solution for multi-currency, multi-coin size and multi-game progressive jackpot systems that are accessible to users from jurisdictions with different currencies. Furthermore,

5    the invention enables users to place wagers on different games whilst competing for the same progressive jackpot prize, or a determinable portion thereof. The invention enables users having different levels of risk tolerance to use the invention simultaneously by competing for different determinable portions of the same progressive jackpot prize.

10

Numerous modifications are possible to this embodiment without departing from the scope of the invention. In particular, the jackpot wagering system may be such that only wagers in integral units of any permissible playing currency are permitted, with use of fractional "coin sizes" being disallowed. Further, the jackpot wagering

15   system can include more than one accumulation account, allowing each game of chance to participate in multiple different jackpots simultaneously. Contributions to, and wins on each jackpot are independent of each other. Still further, the portion of the wager that is accumulated in the accumulation account may be variable instead of being a fixed portion. For example, larger contributions, say 5 percent of

20   the wager, may be accumulated in the accumulation account when the balance of the account is small, decreasing linearly to a minimum of 3 percent as the balance of the accumulation account increases. Yet further, each participating game of chance may have five partially favourable outcomes instead of three.

25   The invention therefore provides a jackpot wagering system that includes multi-game, multi-currency, multi-coin size and multi-jackpot functionality.

## Claims

1. A jackpot wagering system, comprising:

   a player terminal operable by a player to place a wager on a turn of at least one game of chance, the wager having a maximum limit;

   an accumulation facility responsive to placement of the wager to accumulate a portion thereof in an accumulation account;

   a random event generator activatable to generate a random event upon which an outcome of the at least one game of chance is based, the outcome including a favourable outcome causing the player to win a determinable portion of the contents of the accumulation account; and

   a determination facility responsive to placement of the wager to determine, prior to activation of the random event generator, the determinable portion of the contents of the accumulation account as a function of at least the size of the wager and the maximum limit thereof.

2. A jackpot wagering system as claimed in claim 1 in which the player terminal is operable to place a wager on a turn of any one of a plurality of different selectable games of chance, each one of the plurality of different games of chance having a corresponding maximum limit for a wager and a respective favourable outcome causing the player to win a determinable portion of the contents of the accumulation account.

3. A jackpot wagering system as claimed in either one of claims 1 or 2 in which the wager is denominatable in any one of a number different permissible playing currencies.

4. A jackpot wagering system as claimed claim 3 in which the contents of the accumulation account are denominatable in a base currency which is stronger than or equal to a strongest one of the permissible playing currencies.

5. A jackpot wagering systems as claimed in claim 4 in which the strongest one of the permissible playing currencies is the base currency.

6. A jackpot wagering system as claimed in either one of claims 4 or 5 in which the maximum limit of the wager is denominated in the base currency.

7. A jackpot wagering system as claimed in claim 6 that includes a conversion facility instructable to convert a wager from any one of the different permissible playing currencies to an equivalent wager in the base currency.

8. A jackpot wagering system as claimed in claim 7 in which the conversion facility includes a stored spot exchange rate from any one of the permissible playing currencies to the base currency, the stored spot exchange rates being selectively updateable from time to time.

9. A jackpot wagering system as claimed in claim 8 in which the wager is denominatable as an integral number of units or an integral number of fractional units of any one of the permissible playing currencies.

10. A jackpot wagering system as claimed in any one of the preceding claims in which the function by which the determination facility determines the portion of the contents of the accumulation account to be won by the player is a ratio of the size of the wager to the maximum limit thereof.

11. A jackpot wagering system as claimed in claim 10 in which the determination facility determines the size of the wager as a function of the particular permissible playing currency in which the wager is denominated and a corresponding denomination of the of units or fractional units of that playing currency.

12. A jackpot wagering system as claimed in claim 11 in which the determination facility determines the maximum limit of the wager as a function of the base currency.

5

13. A jackpot wagering system as claimed in any one of the preceding claims in which each one of the plurality of different games of chance has a corresponding jackpot cycle.

14. A jackpot wagering system as claimed in claim 13 in which the
10 determination facility determines the determinable portion of the contents of the accumulation account as a function of at least the size of the wager, a maximum limit thereof, and the jackpot cycle of the selected game of chance.

15 15. A jackpot wagering system as claimed in claim 14 in which the function by which the determination facility determines the portion of the contents of the accumulation account to be won by the player is a product of a ratio of the size of the wager to the maximum limit thereof, and a relative size of the jackpot cycle of the selected game of chance.

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16. A jackpot wagering system as claimed in claim 15 in which the relative size of the jackpot cycle of the selected game is a ratio of the jackpot cycle of the selected game to the greatest jackpot cycle of any one of the plurality of different selectable games.

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17. A jackpot wagering system as claimed in any one of the preceding claims in which the outcome of the at least one game of chance includes a plurality of different partially favourable outcomes, each partially favourable outcome causing the portion of the contents of the accumulation account won by the
30 player to be to be proportionally reduced.

18. A jackpot wagering system as claimed in claim 17 in which the reduction in response to the occurrence of a partially favourable outcome of the game of chance is proportional to the probability of occurrence of the corresponding outcome.

19. A jackpot wagering system as claimed in either one of claims 17 or 18 in which the outcome of the at least one game of chance includes three partially favourable outcomes, or five partially favourable outcomes.

20. A jackpot wagering system as claimed in any one of the preceding claims in which the portion of the wager accumulated in the accumulation account by the accumulation facility is a predetermined percentage of the wager.

21. A jackpot wagering system as claimed in claim 20 in which the predetermined percentage of the wager is about three percent.

22. A method for jackpot wagering, comprising the steps of:
   placing a wager on a turn of at least one game of chance, the wager having a maximum limit;
   accumulating a portion of the wager in an accumulation account;
   generating a random event upon which an outcome of the at least one game of chance is based, the outcome including a favourable outcome causing the player to win a determinable portion of the contents of the accumulation account; and
   determining, prior to generating the random event, the determinable portion of the contents of the accumulation account as a function of at least the size of the wager and the maximum limit thereof.

23. A method as claimed in claim 22 which includes a further step of placing a wager on a turn of any one of a plurality of different selectable games of chance, each one of the plurality of different games of chance having a

corresponding maximum limit for the wager and a respective favourable outcome causing the player to win a determinable portion of the contents of the accumulation account.

5    24. A method as claimed in either one of claims 22 or 23 in which the wager is denominated in any one of a number of different permissible playing currencies.

25. A method as claimed in claim 24 in which the contents of the accumulation
10    account are denominated in a base currency which is stronger than or equal to a strongest one of the permissible playing currencies.

26. A method as claimed in claim 25 in which the strongest one of the permissible playing currencies is selected as the base currency.
15
27. A method as claimed in any either one of claims 25 or 26 in which the maximum limit of the wager is denominated in the base currency.

28. A method as claimed in claim 27 in which a wager from any one of the
20    different permissible playing currencies is converted to an equivalent wager in the base currency.

29. A method as claimed in claim 28 in which a stored spot exchange rate is provided from any one of the permissible playing currencies to the base
25    currency, the stored spot exchange rates being selectively updated from time to time.

30. A method as claimed in claim 29 in which the wager is denominated as an integral number of units or an integral number of fractional units of any one
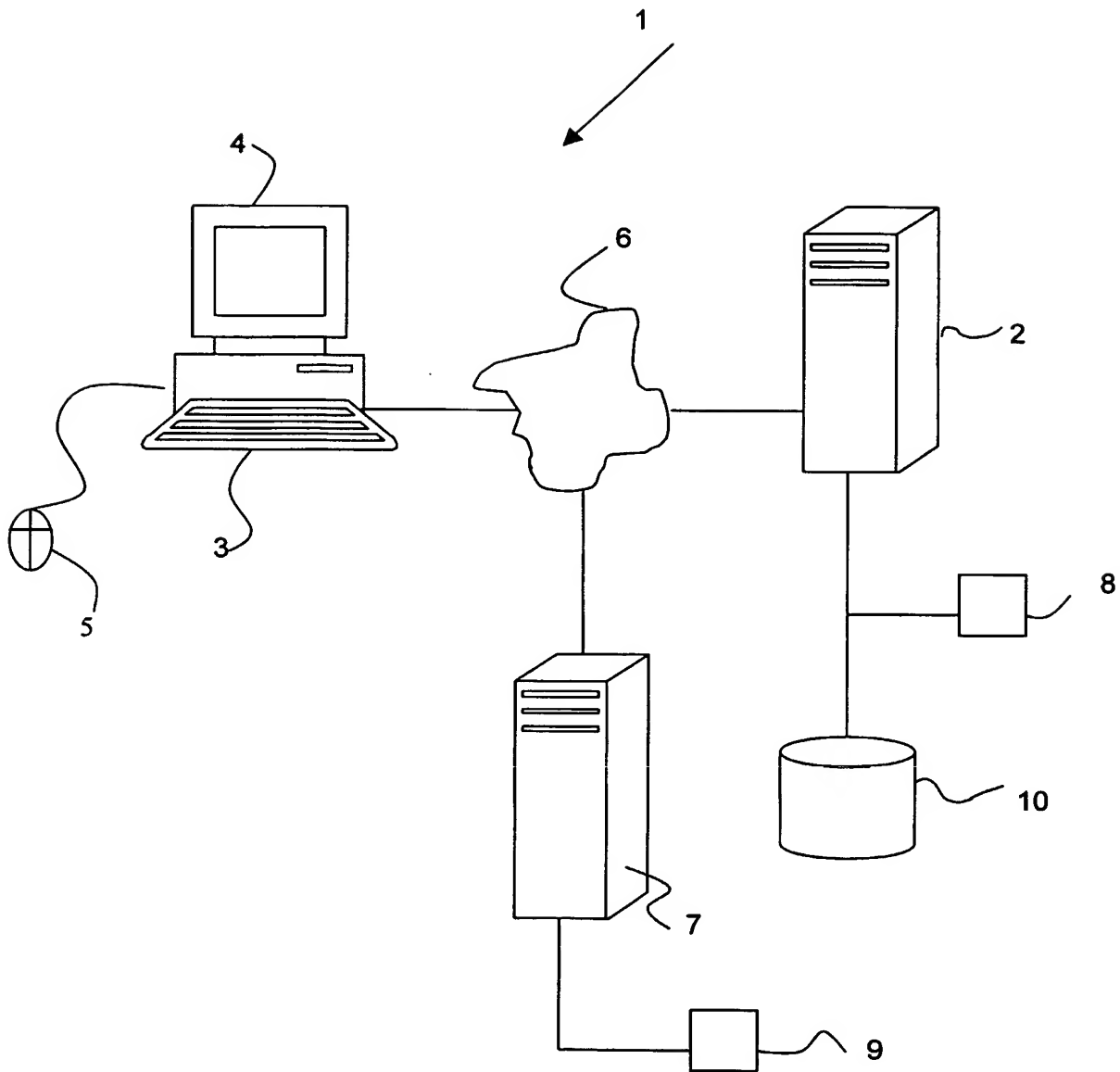30    of the permissible playing currencies.

31. A method as claimed in any one of claim 22 to 30 in which the portion of the contents of the accumulation account to be won by the player is determined as a ratio of the size of the wager to the maximum limit thereof.

32. A method as claimed in claim 31 in which the size of the wager is determined as a function of the particular permissible playing currency in which the wager is denominated and a corresponding denomination of the of units or fractional units of that playing currency.

33. A method as claimed in claim 32 in which the maximum limit of the wager is determined as a function of the base currency.

34. A method as claimed in any one of claims 22 to 33 that includes the further step of determining a jackpot cycle of each one of the plurality of different games of chance.

35. A method as claimed in claim 34 in which the determinable portion of the contents of the accumulation account is determined, prior to generating the random event, as a function of at least the size of the wager, a maximum limit thereof, and a jackpot cycle of the selected game of chance.

36. A method as claimed in claim 35 in which the portion of the contents of the accumulation account to be won by the player is determined as a product of a ratio of the size of the wager to the maximum limit thereof, and a relative size of the jackpot cycle of the selected game of chance.

37. A method as claimed in claim 36 in which the relative size of the jackpot cycle of the selected game is determined as a ratio of the jackpot cycle of the selected game to the greatest jackpot cycle of any one of the plurality of different selectable games.

38. A method as claimed in any one of claims 22 to 37 that includes the step of establishing a plurality of different partially favourable outcomes for the at least one game of chance, each partially favourable outcome causing the portion of the contents of the accumulation account won by the player to be proportionally reduced.

39. A method as claimed in claim 38 in which the reduction of the contents of the accumulation account won by the player in response to the occurrence of a partially favourable outcome of the game of chance is proportional to the probability of occurrence of the corresponding outcome.

40. A method as claimed in any one of claims 22 to 39 in which the portion of the wager accumulated in the accumulation account is a predetermined percentage of the wager.

**Figure 1**

```
┌──────────────┐
│    Select    │
│     Game     │
└──────┬───────┘
       │
       ▼
┌──────────────┐
│    Select    │
│   Currency   │
└──────┬───────┘
       │
       ▼
┌──────────────┐
│    Select    │
│  Coin Size   │
└──────┬───────┘
       │
       ▼
┌──────────────┐
│    Place     │
│    Wager     │
└──────┬───────┘
       │
       ▼
┌──────────────┐
│  Determine   │
│ Scale of Play│
└──────┬───────┘
       │
       ▼
┌──────────────┐
│  Determine   │
│ Contribution │
└──────┬───────┘
       │
       ▼
┌──────────────┐
│   Generate   │
│   Outcome    │
└──────────────┘
```

**Figure 2**

Selected Playing
Currency ──────→ [ Normalise Currency ] ←────── Base Currency

│
↓

Selected Coin
Size ──────→ [ Normalise Coin Size ] ←────── Integral Unit of credit

│
↓

Jackpot Cycle of
Selected Game ──────→ [ Normalise Jackpot Cycle ] ←────── Largest Jackpot Cycle

│
↓

[ Product of Normalised Values ]
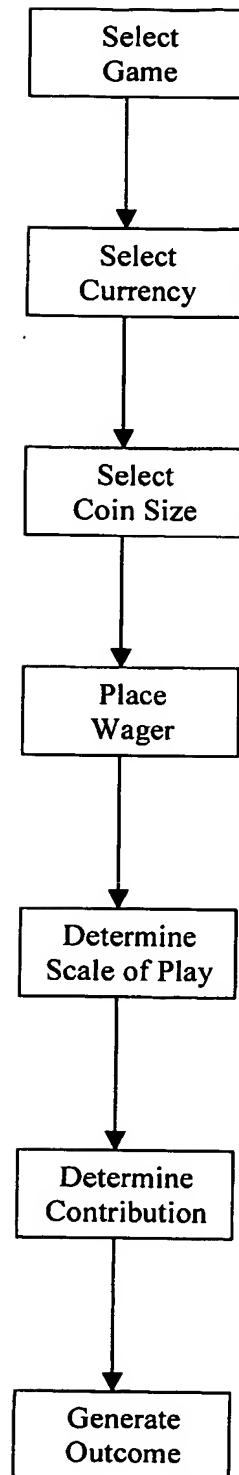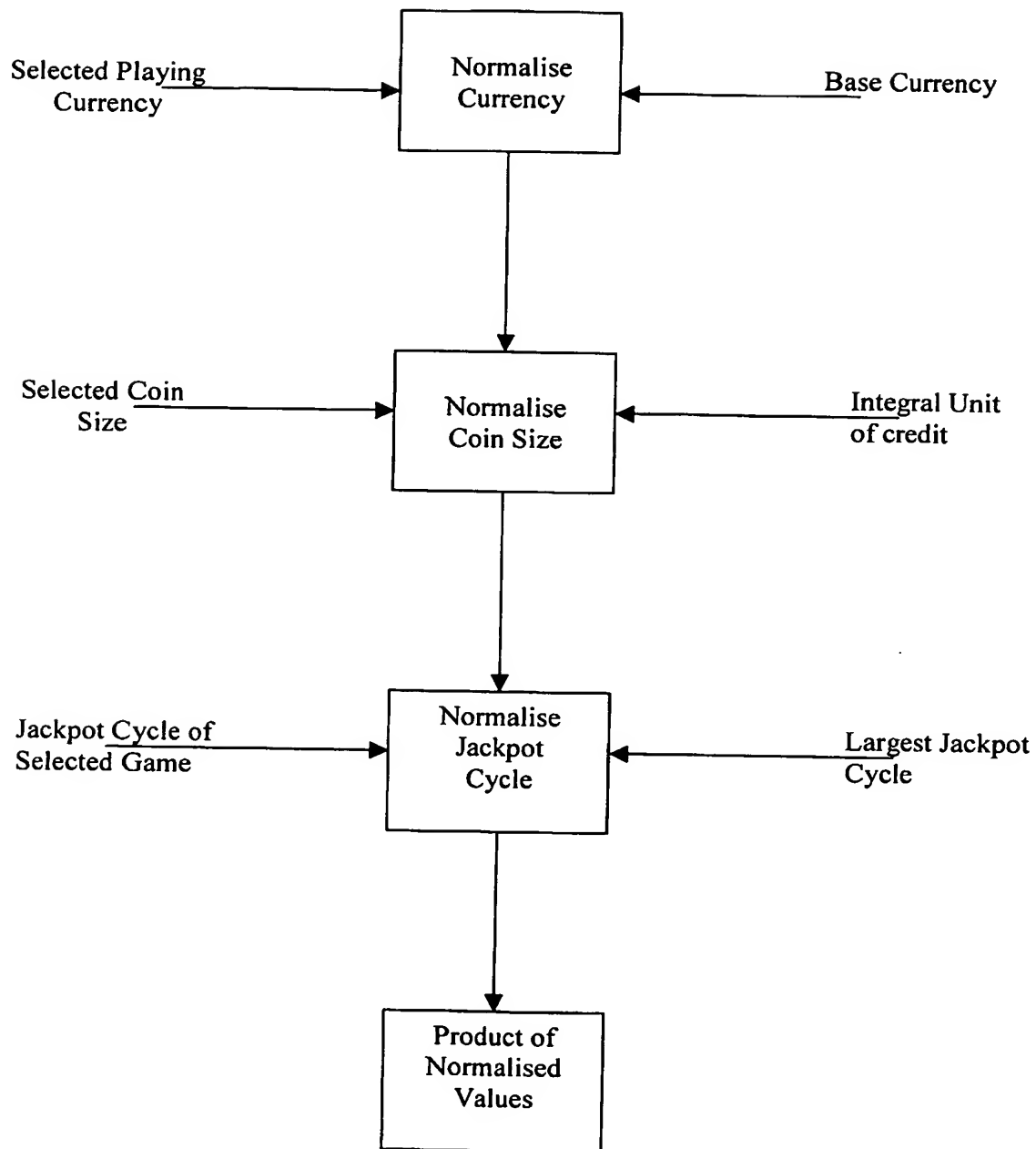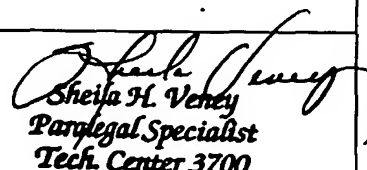
**Figure 3**

# INTERNATIONAL SEARCH REPORT

PCT/IB03/04736

| A. | CLASSIFICATION OF SUBJECT MATTER |
|---|---|
| IPC(7) | : A63F 9/24 |
| US CL | : 463/26 |

According to International Patent Classification (IPC) or to both national classification and IPC

| B. | FIELDS SEARCHED |
|---|---|

Minimum documentation searched (classification system followed by classification symbols)
    U.S. : 463/26, 16, 17, 18, 19, 20, 21, 22, 25, 27, 28

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

| C. | DOCUMENTS CONSIDERED TO BE RELEVANT |
|---|---|

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|---|---|---|
| X | US 2001/0036857 A1 (MOTHWURF et al) 01 November 2001 (01.11.2001), see entire document. | 1-40 |
| A | US 6,059,659 A (BUSCH et al) 09 May 2000 (09.05.2000), see entire document. | 1-40 |

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

| * | Special categories of cited documents: | "T" | later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention |
|---|---|---|---|
| "A" | document defining the general state of the art which is not considered to be of particular relevance | | |
| "E" | earlier application or patent published on or after the international filing date | "X" | document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone |
| "L" | document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | "Y" | document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |
| "O" | document referring to an oral disclosure, use, exhibition or other means | | |
| "P" | document published prior to the international filing date but later than the priority date claimed | "&" | document member of the same patent family |

| Date of the actual completion of the international search | Date of mailing of the international search report |
|---|---|
| 21 February 2004 (21.02.2004) | 0 5 MAR 2004 |
| Name and mailing address of the ISA/US | Authorized officer |
| Mail Stop PCT, Attn: ISA/US<br>Commissioner for Patents<br>P.O. Box 1450<br>Alexandria, Virginia 22313-1450 | Kim Nguyen<br><br>Telephone No. (703)308-1148 |
| Facsimile No. (703) 305-3230 | *Sheila H. Veney*<br>*Paralegal Specialist*<br>*Tech. Center 3700* |

Form PCT/ISA/210 (second sheet) (July 1998)

**Continuation of B. FIELDS SEARCHED Item 3:**
EAST
search terms: jackpot system, maximum limit wager, win a portion of accumulation account, currencies, game of chance.